High Capacity Digital Signal Boosters

PS700-PS800

Product Features

- Supports Public Safety 700 or 800MHz single band
- FirstNet™ Band 14 available
- 3 level of downlink Output power: 0.5W or +27dBm, 2W or +33dBm, 5W or +37dBm
- High-Capacity channel filters: 64 channels
- Fully digital, FPGA based
- Auto Diagnostic
- Automatic gain control per channel and per time slot
- Oscillation detection with alarm and auto-shutdown
- Antenna Isolation measurement feature
- Antenna Isolation Alarm
- Weatherproof enclosure, NEMA 4
- NFPA compliant with dry contact alarms
- Uplink and downlink squelch, per channel and per time slot
- Assisted GUI wizard with Automatic Calibration features (Patent Pending) to reduce the uplink noise
- User adjustable gain control, UL and DL independent, per channel and per time slot
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act
- IFC 2015, 2018, 2021 Edition Standard
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition, NFPA 1225 2022 Edition Standard
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524
- 3-year Warranty



0.5W and 2W units



5W Units

Applications

- For P25 Phase I & Phase II, DMR, NXDN and Conventional systems
- Indoor coverage: buildings, schools, hospitals, casinos, tunnels, metro stations
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas

Specification	Value
Type	Single Band Digital Signal Booster
Frequency Range	PS700: 758-775 / 788-805 MHz or PS800: 806-824 / 851-869MHz
Number of Passband	64 channel filters + 4 BWA
Channel Filter Options	150KHz, 100Khz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz and 12.5KHz
BWA Filters	Adjustable from 100KHz to full band in step in steps of 50KHz
Gain, maximum	85 dB
Passband Ripple	+/- 2.0 dB
Gain, Manual Control	30dB range, digitally controlled in 1dB steps, per link, per band
Antenna Isolation	Max Gain + 20dB
Composite Output Power, DL	• 0.5W / +27dBm or • 2W / +33dBm or • 5W / +37dBm
Composite Output Power, UL	+27dBm
IMD	< -13dBm
Noise Figure	9.0dB max
Group Delay	• Band Selective: 3.5 to 6.5µS, depending on BWA • Channel Selective 150KHz, 11.5µS • Channel Selective 100KHz, 13.5µS • Channel Selective 75KHz, 16.0µS • Channel Selective 62.5KHz, 18.0µS • Channel Selective 50KHz, 21.0µS • Channel Selective 37.5KHz, 25.5µS • Channel Selective 25KHz, 35.0µS • Channel Selective 12.5KHz, 61.5µS
Maximum Input Power, No Damage	+5dBm (UL), +5dBm (DL)
Maximum Input Power, Normal Operation	0dBm (UL), 0dBm (DL)
Connectors	N(f) as standard

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Specification	Value
RF Input/Output Impedance	50 Ω
Uplink Squelch Function	Yes, user selectable, to avoid UL noise when no carriers present, per time slot and per channel
Self Diagnostic Platform	Microprocessor based
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, temperature, AGC, RF overload, donor antenna failure, VSWR Indoor, oscillation.
Local management and supervising	Local access via USB
RoHS compliance	Yes
Power Supply	AC 110 VAC, 50/60 Hz or DC +24VDC (depending on configuration)
Power Consumption	65W for 0.5W and 2W units, 100W for 5W units
Housing	NEMA 4
Temperature range	-13º to 131º F o -25º to +55º C
Cooling	Natural convection
Weight	52.9 lbs (23.9 kg) for 0.5W and 2W units 88 lbs (39.9kg) for 5W units
Dimension	17.7 x 17.3 x 5.1 in (449.58 x 439.42 x 129.54mm) for 0.5W and 2W units 30 x 24 x 16 in (762 x 609.6 x 406.4mm) for 5W units
Mounting	Wall or pole mounting (Rack mounting option available)
MTBF	250,000 hours
FCC ID for DH7S-A & DH7S-D "Class A"	P3TDH7S-00XA for .5W and 2W units P3TDH7S-6A for 5W units

Ordering Information

HONBDA-A-727AH:PS 700 MHz incl Band 14 High Capacity, Class A,0.5W / +27dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-727AH: PS 700 MHz incl Band 14 High Capacity, Class A,0.5W / +27dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-S27AH: PS 800 MHz High Capacity, Class A,0.5W / +27dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-S27AH: PS 800 MHz High Capacity, Class A,0.5W / +27dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-733AH: PS 700 MHz incl Band 14 High Capacity, Class A,2W / +33dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-733AH: PS 700 MHz incl Band 14 High Capacity, Class A,2W / +33dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-S33AH: PS 800 MHz High Capacity, Class A,2W / +33dBm, AC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-S33AH: PS 800 MHz High Capacity, Class A,2W / +33dBm, DC. NFPA compliant, UL2524 2nd Edition Listed FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-737AH: PS 700 MHz incl Band 14 High Capacity, Class A,5W / +37dBm, AC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-737AH: PS 700 MHz incl Band 14 High Capacity, Class A,5W / +37dBm, DC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

HONBDA-A-S37AH: PS 800 MHz High Capacity, Class A,5W / +37dBm, AC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

HONBDA-D-S37AH: PS 800 MHz High Capacity, Class A,5W / +37dBm, DC. NFPA compliant, UL2524 2nd Edition FIPLEX BY HONEYWELL Digital BDA

Standards and Codes

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- Buy American Compliant: meets the definition of Domestic Construction Material under the Buy American Act
- FCC Compliant
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 PECB Certified
- Made in America Compliant
- NFPA 72, 2013 Edition Standard
- NFPA 1221, 2016, 2019 Edition Standard
- NFPA 1225 2022 Edition Standard
- ROHS compliant
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524

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We cannot cover all specific applications or anticipate all requirements.
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Country of Origin: USA

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